

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT

**PERMIT TO OPERATE A SEPTAGE LAND
APPLICATION SITE**

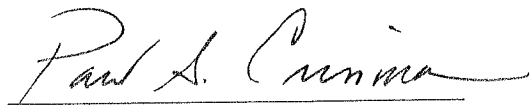
Eddie Brinson
Brinson & Miller Inc
1731 N Road Street
Elizabeth City NC 27909

is hereby issued a permit to operate Septage Land Application Site with permit # **SLAS-70-01** on SR 1351 in Pasquotank County. The site is to be operated in accordance with 15A NCAC 13B .0800 Septage Management, the information stated in the approved application, and the conditions of this permit. The unauthorized disposal of any liquid or solid wastes other than those specified in the conditions of this permit will be considered a violation of the conditions of this permit. Failure to comply with the conditions of this permit may result in permit suspension, permit revocation, action for injunctive relief, administrative penalties, or other remedies as provided in G.S. 130A, Article 1., Part 2.

This permit shall be reviewed annually to determine if soil test results and management activities are in compliance with the Septage Management Rules and the conditions of this permit. Modifications, where necessary, shall be made in accordance with rules in effect at the time of review.

Date Issued

5/31/06



Paul S. Crissman, Chief
Solid Waste Section

Operator: Eddie Brinson
SLAS #: 70-01
County: Pasquotank

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Permit Conditions:

1. This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of the surface waters and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Eddie Brinson and approved by the Division. The 18-acre site shall be divided into three, 6-acre fields known as Field A, Field B and Field C, as identified on the aerial photograph submitted with the plan. After the Spring of 2004, only Section A (consisting of six acres of fescue) will be utilized for the land application of septage. Fields B and C will be planted in millet in 2004 at a seeding rate of 20 lbs/acre. Wheat shall be planted in Fields B and C following millet harvest at a seeding rate of 3 bushels per acre. This cropping system should continue for sections B and C for the next five years. Corn and soybeans are permitted in the rotation for sections B and C, but if peanuts are included in this rotation the Division of Waste Management needs to be notified so that proper setbacks may be implemented. The 30-day waiting period before grazing shall be met by dividing field A into 3, 2-acre sections. Section A will be rotationally grazed as outlined in Section G of the nutrient management plan. Field A may be divided into only two fields to observe the 30-day withdrawal period if hay will be cut off of the site. All discharges shall be at locations on the site consistent with the crop rotation in the approved plan.
3. This site shall be operated and maintained in accordance with the erosion and runoff control plan submitted by Eddie Brinson. A 50-foot buffer where no septage shall be applied shall be planted to the same crop growing in the permitted area shall be maintained around the perimeter of the site. Any site improvements noted in the plan must be installed within 30 days of plan approval. The site shall be operated and erosion and runoff control measures maintained in such a manner as to prevent migration of wastes off of the designated waste receiving site. The installation of groundwater monitoring wells may be required.
4. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (local, state and federal) which have jurisdiction. It is the responsibility of the Permittee to be in compliance with the requirements of 40 CFR 503.
5. This permit may be modified or reissued to incorporate any conditions, limitations and monitoring requirements the Division of Waste Management deems necessary to adequately protect the environment and public health.
6. **This site is only permitted for the land application of domestic and grease septage.** Domestic septage pH shall be raised to 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 30 minutes prior to land application. Grease septage or grease septage mixed with domestic septage shall be raised to pH 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 2 hours prior to land application.
7. **This site contains approximately 18 acres that are available for septage disposal. In accordance with the nutrient management plan only 6 acres shall be used annually and only two acres per month.** The maximum annual application rate shall be 50,000 gallons per acre per year, for a total,

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8. An approved above ground septage detention system with a minimum design capacity of 5,000 gallons shall be available prior to operation of this site unless an approved wastewater treatment plant is available for use during periods of adverse weather. The storage capacity may be adjusted if it is demonstrated during the operation of the site that this volume of storage is inappropriate.
9. Only the area designated on the attached site map(s) shall be utilized for septage disposal. Each load of septage discharged at the site shall be distributed from a moving vehicle in such a manner that there is no standing water when the discharge is complete. Septage shall not be applied during periods of high soil moisture.
10. This permit shall become voidable unless the land application activities are carried out in accordance with the conditions of this permit and in the manner approved by this Division. No one other than the Permittee shall discharge septage at this site without prior appropriate notification and written approval of the Division of Waste Management.
11. Prior to any transfer of this land, a notice shall be given to the new owner that gives full details of the materials applied or incorporated at this site. The Division shall be notified prior to site closure.
12. **This permit shall expire May 31, 2011.** Modifications, when necessary, shall be made in accordance with the rules in effect at the time of renewal. An application for permit renewal shall be submitted at least ninety (90) days prior to the permit renewal date. The septage application log for the period of time this permit was valid shall be submitted along with the application for permit renewal. This permit is non-transferable.
13. Records shall be kept in accordance with 40 CFR 503.17(b). These records shall be made available to a representative of the Division of Waste Management upon request.
14. Any duly authorized officer, employee, or representative of the Division of Waste Management may, upon presentation of credentials, enter and inspect any property, premises, or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.
15. Field separations in the nutrient management plan and all pertinent setbacks shall be clearly located on the site.
16. The areas that can be used for land application of septage shall be maintained at least 500 feet from any existing wells, residences, places of business, or places of public assembly. Septage shall not be disposed of within 50 feet of any property line or within 100 feet of any ditch.
17. Site location: latitude 36 21 34
longitude 76 15 12

GRID BASED ON NORTH CAROLINA STATE PLANE COORDINATE SYSTEM 1927 NORTH AMERICAN DATUM



APPLICATION FOR A PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

North Carolina Department of Environment and Natural Resources
Division of Waste Management – Solid Waste Section
401 Oberlin Rd., Ste. 150, Raleigh, NC 27605

I. Site and Operator Information

1. Applicant

Address

Phone

EDDIE BRINSON

1731 N. Rd. SC

ELIZ. CITY, N.C. 27909

(252) 335-7774

2. Contact person for site operation (if different from applicant):

Title or position

Phone

Address

3. Landowner

Address

Ed CHERRY

1813 N. Rd. SC

ELIZ. CITY, N.C. 27909

4. Site Location:

County PASQUOTANK

State Road Number 1351

Directions to site:

5. Indicate whether request is: new _____ renewal ☒ modification _____

For a permit renewal or modification, provide the following information:

Existing site permit number: SLAS-70-01

permit expiration date: April 18, 2006

6. Number of acres meeting the requirements of the NC Septage Management Rules: 18 acres.

7. Substances other than septage or grease trap pumpings previously disposed of on the site:

(a) None ☒, or (b) Attach a list indicating other substances, the amounts discharged, and the dates of discharge.

8. Attach written, notarized landowner authorization to operate a septage disposal site signed by the landowner (if the permit applicant does not own the property). *If a corporation owns the land use a corporate landowner authorization form. If limited liability company owns the land, use a limited liability company landowner authorization form.*

9. Attach site evaluation report, including aerial photograph and soil analysis with metals results, unless the Division prepared the report. ON FILE

10. Attach a vicinity map (county road map showing site location). ON FILE

(over)

II. Site Management Information:

The following information shall be included with the application form:

1. Nutrient Management Plan
2. Soil Erosion and Runoff Control Plan
3. Alternative plan for disposal (detention facility permit number or wastewater treatment plant authorization): SPTF-70-01
4. Types of septage proposed to be discharged at the site (check all that apply):
 - (a) Domestic septage pumped from septic tanks ☒
 - (b) Grease trap pumpings ☒
 - (c) Portable toilet waste ☐
 - (d) Commercial / Industrial septage ☐
5. Proposed treatment method of each type of septage to be land applied (use additional paper to explain if necessary): Time Stabilization: Domestic Sewage at PH12 for 30 Mins. Grease Trap at PH12 for 2 hrs. Time applied to soil as deemed necessary per soil tests + farmer needs
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): Discharge from truck
7. Demonstration from the appropriate state or federal government agency that the land application site complies with the Endangered Species Law ** or if any part of the site specified is not agricultural land (use additional paper to explain if necessary): This is all agricultural land

III. Certification

I hereby certify that:

1. The information provided on this application is true, complete, and correct to the best of my knowledge.
2. I have read and understand the N.C. Septage Management Rules, and
3. I am aware of the potential consequences, including penalties and permit revocation, for failing to follow all applicable rules and the conditions of a Septage Land Application Site permit.

Eddie Brinson
Signature***

EDDIE BRINSON
Print name

3/31/2006
Date

President
Title

Note: This application will not be reviewed until all parts of the application are complete.

* Refer to Section .0821(e) of the NC Septage Management Rules.

** Refer to Section .0821(g) of the NC Septage Management Rules.

***Signature of company official required.

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Date May 23, 2006
M.C. Dept. of Environment & Nat. Resources
Dir. of Waste Management

IN ACCOUNT WITH

BRINSON & MILLER, INC.

1731 N. Road Street

Elizabeth City, NC 27909

Plumbing - Heating - Service - Supplies

Septic Tank Cleaning & Service

N.C. License No. 1695

Addition to MMD

Septage will be
spread evenly across
the site from a
moving vehicle

Eddie Brinson

May 23, 2006

A 2% MONTHLY SERVICE CHARGE WILL BE APPLIED
TO ANY UNPAID BALANCE AFTER 30 DAYS

**NUTRIENT MANAGEMENT PLAN FOR
SEPTAGE APPLICATIONS TO TALL FESCUE**

**Brinson and Miller, Inc.
1731 North Road Street
Elizabeth City, NC 27909**



A. General Information:

1. Periodic sampling (at least one/year) of the septage will be conducted for waste analysis.
2. Field A, B, and C each contain 6 acres. The total permitted area is 18 acres. The attached copy of the aerial photograph for the site shows field boundaries and identifications.
3. The dominant soil series on the site is Bertie fine sandy loam.
4. Septage will not be applied where the site is untrafficable (untrafficable is defined as soil that will allow a loaded truck to leave a depression in sod greater than 3 inches in depth).
5. All nitrogen recommendations for forages will be 75% of the realistic yield expectation nitrogen rate should the forage be grazed.
6. Septage storage shall be provided to account for the average volume of septage pumped per week, or an alternative plan, such as disposal at a waste treatment plant, should be in place.

B. Crops to be grown and approximate planting times:

- 1a. Field A, including buffer zones, will be seeded in tall fescue at a rate of 10-15 lb/acre drilled from August 25 to September 15 in order to establish permanent stand. To promote stand establishment the following steps will be taken the first year (weed control, reduced number of harvests, reduced vehicular traffic, etc.).

Areas that develop with less than 70% groundcover by fescue will be reseeded with fescue at a rate of 15 lbs/acre broadcast in August.

- 1b. The 18 acres of permitted land has been divided into three sections known as A, B, and C consisting of six acres each. Section A is the only section that has been used for septage applications in the past few years. Section A will be sowed in fescue in October of 2004 at 25 lbs/acre. Section A will not receive septage until 2005 when the Division of Waste Management and the Pasquotank County Extension Center determine that the forage stand is suitable for waste applications. For the winter of 2004-2005 section B, along with a one acre tract of fescue (part of section A not in use), will be

utilized for the land application of septage. Sections B and C will be planted in wheat at a rate of 3 bushels per acre in 200~~4~~ followed by millet at 20 lbs/acre in 200~~5~~. This cropping system should continue for sections B and C for the next five years. Corn and soybeans are permitted in the rotation for sections B and C, but if peanuts are included in this rotation the Division of Waste Management needs to be notified so that proper setbacks may be implemented if needed. Sections B and C will remain on the permit but will not be included in the permitted acreage for the total gallons. Section B needs to be divided into at least two paddocks if cattle are going to graze this area in the winter of 2006-2007. This will allow for a three field rotation with the one acre tract of fescue. After the spring of 200~~5~~, only Section A (consisting of six acres of fescue) will be utilized for the land application of septage.

C. Nitrogen needs for crops grown:

RYE = Realistic Yield Expectations

N App. Rate = Suggested N application rate based on RYE for soil type.

Crop (hay)	RYE	N App. Rate		lbs. N/acre
Tall fescue	4.0 tons/acre x	45 lbs N/dry ton	=	180
Crop (grazed)	RYE	N App. Rate	Reduction Factor	lbs. N/acre
Tall fescue	4.0 tons/acre x	45 lbs N/dry ton x	0.75 =	135

D. Relative application rates for Fields A and B:

<u>Month</u>	<u>Field</u>		
	<u>A</u>	<u>B</u>	<u>C</u>
January	Low		
February	Medium		
March	High	"Will Remain on Permit, But No Septage Will Be Applied"	
April	High		
May	Medium		
June	Low		
July	Low		
August	Low		
September	Medium		
October	Medium		
November	Medium		
December	Low		

None = 0 gallons; Low = 5,000 gallons

Medium = 10,000 gallons; High = 15,000 gallons

NOTE: Cumulative application rate is not to exceed the permitted application rate.

Annual application rate is not to exceed 50,000 gallons per acre.

E. Application Method

The preceding information is based on septage being evenly applied over the enter permitted site by septage hauler truck.

F. Additional Fertility Requirements

Phosphorus and potassium will be added in accordance with the soil test results for the crops grown. NOTE: The phosphorus requirement can be reduced by taking into consideration the phosphorus from the septage analysis, if an analysis is available.

Approximately 200 lbs/acre of 30-0-0 fertilizer will need to be added to the land application area in September to maintain nitrogen fertility levels.

The buffer areas will be fertilized with 600 lbs/acre of 30-0-0 fertilizer to maintain production.

G. Harvest of the crops and their use:

1. The fescue could be cut as hay and baled whenever it reaches approximately 12 inches in height or just before seedhead emergence. This will usually take place in late May and again in September or October. At least two fescue harvests will be made each year.
2. A 30-day waiting period must be observed between the last application of septage and harvest. Beginning about mid-April each year, septage will be applied strictly to Field 2a and 3a while field 1a is undisturbed for 30 days. After 30 days the fescue on Field 1a will be harvested and septage applications switched to Field 1a. After an additional 30 days, in mid-June, the fescue will be harvested from Field 2a and 3a. The same rotation pattern will be followed for all subsequent harvests.

Field A will be grazed as a three-section rotation. The rotation is such that Field 1a is grazed while field 2a is undisturbed and Field 3a receives septage. After 30 days, Field 2a will be grazed while Field 3a left undisturbed and Field 1a receives septage. For the third phase of the rotation Field 3a is grazed while Field 1a is undisturbed and Field 2a receives septage. The following table shows the rotation pattern:

<u>Month</u>	<u>Field 1a</u>	<u>Field 2a</u>	<u>Field 3a</u>
January	Graze	Wait	Apply
February	Apply	Graze	Wait
March	Wait	Apply	Graze
April	Graze	Wait	Apply
May	Apply	Graze	Wait
June	Wait	Apply	Graze
July	Graze	Wait	Apply
August	Apply	Graze	Wait
September	Wait	Apply	Graze
October	Graze	Wait	Apply
November	Apply	Graze	Wait
December	Wait	Apply	Graze

SOIL EROSION AND RUNOFF CONTROL PLAN

Given that slopes on this site do not exceed five percent, a 50 foot buffer, planted in fescue, should suffice to prevent septage waste from migrating off of the fields. (More severe site conditions could require that soil erosion structures be installed before septage can be applied).

Submitted By: Eddie Bruns Date: March 27, 2006
 Site Operator

Plan Prepared By: Jarvis Burke & Al Wood Date: 3-27-06

Address: _____

Phone: _____